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ABSTRACT

The followup study on program articulation in Hawaii public secondary and postsecondary educational institutions examines articulation in the subject areas of auto mechanics, business education, drafting, and food service. It contains seven general recommendations regarding articulation for the State Board of Vocational Education, the Board of Regents, community college provosts, and the State Department of Education. In addition, it contains specific recommendations relative to implementation of program articulation in the four subject areas for the community colleges and State Department of Education. It also contains the report of an administrators' meeting on articulation with the various general and specific recommendations and articulation guidelines and responsibilities delineated by provosts. Appendixes comprising one-half of the document list the program offerings in the four subject areas and analyze them with respect to: extent of implementation of articulation, description of implementation, responsible agent, expected outcomes, cost factors, and other implications of both the postsecondary and secondary levels. (JR)

FINAL REPORT

Project No. VO274VZ Grant No. OEG-0-74-1649

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

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ARTICULATION AMONG AND BETWEEN PUBLIC SECONDARY

AND POST-SECONDARY INSTITUTIONS IN HAWAII

A Follow-Up Study of the Implementation of the FY 1973 Articulation Recommendations

Research Project in Vocational Education Conducted Under Part C of Public Law 90-576

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> > May, 1975

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PREFACE

The body of this report was written in January, 1975. Draft copies were reviewed by administrators from the community colleges, and the Department of Education district offices and Vocational-Technical Section.

An administrators' meeting on articulation was held on March 14, 1975, focusing on recommendations from this report. The objective was to ascertain an administrative consensus on recommendations which were agreeable to all and those which were not. The D.O.E. and community college groups, which met in separate working sessions, were asked to specify revisions which were necessary and problems implicit in the recommendations.

They were also asked to focus on the following:

- specification of where authority and responsibility for review, revision, approval and implementation lie.
- establishment of procedures or mechanisms for implementation and the resolution of questions or problems arising from implementation efforts.
- need for a person or body to monitor, coordinate, and evaluate implementation efforts on separate community college campuses and D.O.E. districts.

The results of this meeting are reported in the Addendum to the Report on page 29. In brief, the provosts identified a number of articulation guidelines according to which they would operate as well as specific responsibilities which they would assume. The D.O.E. administrators suggested revisions to the recommendations and specified time frames for them.



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The revisions have been incorporated into this report. Addenda have also been noted on the implementation charts updating the extent of implementation.

Minnie Boggs March 31, 1975



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SUMMARY OF RECOMMENDATIONS

General Recommendations

- State Board for Vocational Education: Formally re-endorse the concept and intent of articulation and encourage implementation to carry out the goal and objectives of articulation as stated in the 1974 Revised State Master Plan for Vocational Education (p. 7).
 - Board of Regents: Support and encourage implementation on the community college level (p. 7).
- 2. Provosts of the Community Colleges and the D.O.E. District Superintendents: Declare a commitment to improving articulation between program areas and exercise administrative leadership in the implementation of the agreements (p. 8).
- 3. State Board for Vocational Education: Establish a position in the Office of the State Director for Vocational Education for the evaluation of vocational education programs in all aspects, including articulation (p. 9).

Alternative recommendations:

- a. State Board should restore the position of Assistant State
 Director for Vocational Education, who shall assume
 responsibilities for evaluation and articulation (p. 9).
- b. State Board should establish position counts for articulation in the Office of the Chancellor for Community Colleges (horizontal articulation on the community college level) and in the Office of the State Director for Vocational Education (vertical articulation) (p. 9).



- 4. Provosts: Consider as a first step implementing recommendations not involving systemwide changes in course numbers, credit hours, or contact hours. Support course content equivalency throughout the system through performance criteria and tests based on identifiable competencies (p. 10).
- 5. Chancellor for Community Colleges: Transmit information on implementation of recommendations on community college level to Superintendent of Education for dissemination through established channels (p. 11).
- 6. Provosts and District Superintendents: Encourage counselors to acquire and apply knowledge of vocational education programs towards an articulated vocational counseling and guidance system (p. 12).
 - D.O.E.: Incorporate an explicit statement of commitment to an articulated vocational counseling and guidance system in the State Master Plan for Comprehensive Guidance (p. 12).
 - State Director for Vocational Education: Continue to make concerted efforts to provide information on the availability of vocational guidance resources (p. 12).
- 7. D.O.E. Vocational-Technical Education Section and Chancellor for Community Colleges: Develop a coordinated, annual, long-range inservice education plan for vocational education instructors (p. 12).
 - State Director for Vocational Education: Continue to fund inservice education for vocational education instructors (p. 13).



Chancellor for Community Colleges, and D.O.E. District Superintendents in consultation with the D.O.E. State Personnel Office:

Coordinate and schedule workshops and courses, such as during summer, to accommodate the needs of neighbor island instructors (p. 13).

Specific Recommendations - Automotive Mechanics

Community college

- 1. Provosts: Initiate action to cooperatively develop uniform performance objectives based on identifiable behavioral competencies by community college and secondary school vocational automotive instructors. Competencies should be testable through uniform performance tests developed cooperatively by community college faculty with the necessary expertise in evaluation (p. 16).
- 2. Chancellor for Community Colleges: Coordinate the scheduling of inservice training opportunities in automotive mechanics for continued flexibility to allow participation by neighbor island instructors (p. 17).
- 3. Provosts of Hawaii, Kauai, and Maui Community Colleges: Initiate action to include secondary school representation on the college automotive advisory committees (p. 17).
 NOTE: This recommendation has now been implemented.
- 4. The Chancellor for Community Colleges upon consultation with the Statewide Curriculum Council, should specify appropriate channels for the consideration of systemwide curriculum proposals. The Chancellor should specify channels for considering changes in definition of vocational education instructor workload. Furthermore, the question of who is responsible for determining and maintaining course equivalency should be answered. All new courses

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should be established on the basis of equivalency (p. 19).

D.O.E.

- Secondary school vocational automotive instructors: Provide input in the development of performance criteria for automotive courses on the community college level (p. 16).
- 2. District Superintendents for Hawaii, Maui, and Kauai: Submit to the Provost of the community college the name(s) of elected secondary school representative(s) on the college automotive advisory committee. Work with the State Director for Vocational Education to see that inservice training opportunities in automotive mechanics continue to be flexible enough to allow participation by neighbor island instructors (p. 18).

Specific Recommendations - Typing and Shorthand

Community College:

Provosts of Kapiolani, Windward, and Leeward Community Colleges should inform their staffs of placement and credit procedures through certification in the event that certification procedures are implemented in all D.O.E. districts (p. 21).

D.O.E.

- 1. District Superintendents on Oahu: Implement the recommended certification procedures for typing and shorthand (p. 21).
- 2. Vocational-Technical Education: Print uniform certificates
 of proficiency to be used in certification procedures throughout the State (p. 21).

NOTE: This recommendation is now being implemented.



Specific Recommendations - Drafting

Community College

- 1. Provosts: Support drafting instructors' attempts to improve horizontal articulation through course content equivalency in the form of uniform performance objectives and tests (p. 25).
 - Hawaii, Honolulu, Kauai, and Maui Community Colleges: Review evaluative instrument developed cooperatively by Leeward Community College and D.O.E. for possible use in their drafting programs (p. 25).
- Hawaii, Honolulu, Kauai, Leeward, Maui: Invite participation
 of secondary school vocational drafting instructors on college
 drafting advisory committees (p. 26).

NOTE: This recommendation has now been implemented at Hawaii, Honolulu, Kauai, and Leeward Community Colleges. Maui will take steps to do so.

D.O.E. and Community College:

Intensive summer workshops and courses on Oahu should be available to accommodate the needs of both Oahu and neighbor island drafting instructors (p. 25).

Specific Recommendations - Food Service

Community College

 Statewide Curriculum Council: Disseminate to all community colleges information on authorized procedures for making systemwide changes in course numbering and titling. If authorized procedures are followed for renumbering Food Service courses and necessary



approval obtained, implementation should occur at the same time on all campuses with food service programs (p. 27).

2. Hawaii and Leeward Community College Provosts: Consider implementation of the Food Service course credit options (p. 28).

D.O.E.:

Secondary school foods program instructors: Work in closer coordination with community college instructors so that students are prepared to exercise community college course credit options (p. 28).



EXTENT OF IMPLEMENTATION OF FY 73 ARTICULATION RECOMMENDATIONS

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ARTICULATION AMONG AND BETWEEN PUBLIC SECONDARY AND POST-SECONDARY EDUCATIONAL INSTITUTIONS IN HAWAII

A Follow-Up Study of the Implementation of the FY 1973 Articulation Recommendations

Introduction

Articulation efforts in Hawaii are addressed to the need for cooperative planning and systematic coordination in educational programs. For purposes of clarity, it may be appropriate to define just what is meant by the term articulation. As McKinnerney* defines it:

Articulation refers to the relationships between educational programs which are designed to provide a smooth transition for the student from one educational program to another. This movement . . . can be either horizontal or vertical.

Horizontal articulation includes those relationships between programs, courses, or activities which exist at any one educational competency level and provide a coordinated educational program for the student. Vertical articulation refers to those relationships which exist between institutions, programs, courses or activities and provide a coordinated program for a student moving from one educational competency level to the next.

For the past three years articulation is vocational education program areas has been a subject of prime concern to vocational educators in Hawaii. On a national level, the Vocational Amendments Act of 1968 underscored the importance of a unified program of vocational education. To achieve more integration in the vocational programs offered in the public secondary and

*Beryl R. McKinnerney, <u>Student Articulation Between Secondary and Post</u>-Secondary Education, 1974.



post-secondary programs in Hawaii, the State Director for Vocational Education obtained federal funds for year-long meetings involving personnel from both levels of education.

The year-long meetings during the first Articulation Institute (1972-73) focused on four vocational education areas (automotive mechanics, business education--typing and shorthand, drafting technology, and food services) and resulted in specific recommendations to improve horizontal and vertical articulation. A second Articulation Institute was held during 1973-74 to improve articulation in business education (accounting, data processing, office practice), electricity, electronics technology, and allied health. A Third Articulation Institute is currently (1974-75) being held in the areas of agriculture, auto body repair and painting, carpentry, and distributive education.

The need for integrated vocational education programs on both secondary and post-secondary levels of education becomes increasingly paramount as more students and their parents become aware of the diversity of employment opportunities in vocational areas. Educators should remember that program articulation is designed to enhance the occupational development of students through integrated programs which recognize the validity of occupational competence and knowledge gained through prior job experience as well as formal classroom instruction. If a student can already meet the performance criteria for a given course, repetition of the coursework is not only inefficient in terms of his program but probably also distasteful to him.

Educators have no quarrel with the idea that occupational competence may be acquired in ways other than instruction in their particular institutions. What is needed is their commitment to this concept by facilitating



the awarding of course credits to recognize the validity of competencies acquired previously. The student may then proceed to the next level of coursework in a more integrated manner at no expense of time and potential loss of earnings. Although course challenge examinations have long been available in the community colleges, they have not been a viable credit option because students have feared challenging a course. Furthermore, many instructors and counselors have not actively encouraged students to exercise the option and have not facilitated student demonstration of competencies so as to avoid unnecessary repetition of coursework because faculties are not adequately compensated for developing, administering, and correcting the examinations.

Articulation efforts in vocational education program areas in Hawaii focus on the benefit to <u>students</u> through integrated programs which maximize student learning and occupational enthusiasm. The objectives of articulation between vocational education areas in Hawaii's high schools and community colleges include:

- 1. the facilitation of program entry on the community college level,
- recognition through various community college credit options that students may already have acquired competence and knowledge relevant to particular courses through previous coursework or on-thejob training,
- the minimizing of expensive and time-consuming program duplication,
 and
- 4. the use of uniform competency tests for use in student evaluation or placement so as to insure minimal duplication of coursework.



Purpose

This report is an evaluation of articulation efforts stemming from the FY 73 Articulation Institute recommendations for Automotive Mechanics, Business Education (Typing and Shorthand), Drafting, and Food Service. It should be considered as formative evaluation, that is, evaluation which seeks to improve a process before it ends. Evaluative feedback is being channeled to currently ongoing articulation efforts in the Third Institute. The principal objective of this evaluation is to facilitate systematic ways of implementing the recommendations which were developed as a result of statewide efforts to achieve vertical and horizontal articulation.

Methodology

Data for the main body of the report were obtained mainly through onsite interviews at each of the community colleges and some D.O.E. district
offices. Community college personnel interviewed included the Provost, Dean
of Instruction, chairpersons of the Business Education and Trades and Industry
Divisions, and instructors in each of the four subject areas. D.O.E. personnel interviewed included the Hawaii Deputy District Superintendent, the Maui
District Superintendent and the Kauai District Curriculum Specialist.

Input from educators was also obtained through letters of inquiry, a survey instrument, telephone conversations, and meetings. Educators included individual instructors who had participated in the First Articulation Institute, curriculum specialists in the D.O.E. district offices on Oahu, program specialists in the Vocational-Technical Education Section of the D.O.E., the Head Team Leaders for each of the four subject areas, and the Director for Community College Services.



A meeting on articulation for administrators from the Department of Education and the community colleges was held on March 14, 1975. The results of this meeting are reported in the Addendum on pages 29-35.



GENERAL RECOMMENDATIONS

Problem 1. Since May, 1973, when the Articulation Report containing the recommendations of each area was published, there has been some administrative action by provosts and district superintendents to implement the recommendations. Many recommendations on some campuses have been implemented mainly through instructor initiative. However, because there was no formal endorsement of the Articulation Report by the State Board for Vocational Education, the implementation which has occurred either through administrative action or instructor initiative has occurred on a seemingly fragmented and piecemeal basis without statewide coordination.

Furthermore, because the Articulation Report has not been formally approved by the State Board, it is not considered by some people to be an official document. Therefore, it does not receive the consideration for implementation appropriate to an official document. The agreements which were made among the instructor-participants have not been formalized as official agreements between the Board of Education and the Board of Regents and therefore must be considered as recommendations or informal agreements.

Original strategy for implementation called for the State Board for Vocational Education to officially approve the recommendations so that they would have the binding force of agreements. The State Board commended the participants on their work but did not formally approve the Report. It directed that a study be conducted to review the implications of the recommendations before taking further action. This study attempts to provide the necessary information. In 1974, however, the State Board



approve the Revised State Master Plan for Vocational Education, which included statements on the goal and objectives of articulation.

The Board of Education (governing board for education on the K-12 level) also approved the Articulation Report. However, the Department of Education has not officially initiated any attempts at implementation of the recommendations on the secondary level because it is awaiting the State Board's official approval of the Report.

Official action at this time is important. A year's worth of educators' efforts has gone into the recommendations. Since then articulation efforts have continued in the FY 1974 and 1975 institutes in an increasingly wider range of vocational education areas. It is imperative that implementation efforts from the first year's recommendations be endorsed as an impetus to the implementation of the second and third year's recommendations, and to clarify the confusion concerning the role of the State Board.

Recommendation:

- 1. The State Board for Vocational Education in the State of Hawaii should formally re-endorse the concept and intent of articulation between program areas in different levels of education and encourage implementation to carry out the goal and objectives of articulation as stated in the 1974 Revised State Master Plan for Vocational Education.
- 2. The Board of Regents as the policy-making body for the University of Hawaii Community College System should support and encourage implementation on the community college level, as well as vertical articulation with the Department of Education.

Problem 2. At present, there is some confusion at various levels within educational institutions as to whose responsibility it is to direct the



implementation of the recommendations. There is some feeling among instructors that they themselves cannot implement the recommendations without the specific direction in the D.O.E. of the Superintendent, district superintendents, and principals; and in the community colleges, of the provosts. Faculty are unsure of the extent to which they should exercise initiative in implementing specific recommendations. Although many recommendations have been implemented on some campuses through instructor initiative, instructors still feel the need to have official sanction for their efforts.

Recommendation:

The provosts of the community colleges and the D.O.E. district superintendents should, upon endorsement of the Report by the State Board, formally make known their commitment to improving articulation between program areas and exercise administrative leadership in directing the implementation of the agreements.

Problem 3. Some faculty-initiated attempts to implement the recommendations have raised unanticipated questions or problems. Faculty and administrators have been unsure of whom they should turn to for clarification of ambiguities or resolution of problems. There has been no one person or body responsible for monitoring, evaluating, and coordinating articulation efforts on all islands. The specification of institutional, intrasystem, and inter-system procedures for the resolution of questions or problems is crucial to the morale of faculty who have initiated implementation efforts and to expediting the implementation of recommendations from the second and third institutes.



Recommendation:

1. Because many of the problems and questions that have arisen in attempts to implement articulation recommendations involve the very substance of and fundamental concepts underlying vocational education, the State Board for Vocational Education should establish a position in the Office of the State Director for Vocational Education for the evaluation of vocational education programs in all aspects, including articulation.

Articulation responsibilities shall involve coordinating and facilitating the implementation of articulation recommendations on all islands and monitoring and evaluating ongoing articulation plans. These responsibilities shall be carried out in close cooperation with Provosts and District Superintendents, who are responsible for exercising the administrative leadership necessary to effective implementation, as well as the Statewide Curriculum Committee.

- 2. Provosts of the community colleges and the District Superintendents of the Department of Education, in cooperation with the Evaluation Specialist, should
 - a. specify institutional, intra-system, and inter-system procedures for the resolution of questions, problems, or difficulties which may arise upon efforts to implement the recommendations, and
 - b. establish evaluation and monitoring mechanisms for regular feedback on progress in implementation.

Alternative recommendations:

- 1. State Board should give priority to the restoration of the positions of Assistant State Director for Vocational Education and fiscal officer, with the Assistant State Director assuming responsibilities for evaluation and articulation.
- State Board should establish position counts for articulation responsibilities in (a) the Office of the Chancellor for Community Colleges for horizontal articulation on the community



college level, (b) the Office of the State Director for Vocational Education for vertical articulation.

Problem 4. On the community college level there appear to be differences in understanding of what articulation involves. There is some concern that recommendations for program uniformity to facilitate student transfer mean rigidity for the college, imposition of a particular college's program on the other colleges, basic change in mode of instruction entailing costs of additional instructors, or compromise in program quality.

Furthermore, the individual community colleges have varying philosophies governing the operation of programs. They are reflected in different completion requirements for the same vocational program. The differences are evident in the number of courses, the number of credit hours, and the number of contact hours necessary for completion of program requirements. This variation may pose a problem for students entering a community college vocational program from the secondary level as well as from other post-secondary institutions.

Recommendation:

Provosts of the community colleges should as a first step consider the feasibility of implementing recommendations which do not necessitate systemwide changes in course numbers, course credit hours, or course contact hours.

Provosts should support the concept of course content equivalency throughout the system through performance objectives and tests based on task analyses. Criterion measures should be based on identifiable competencies. Performance testing may be used not only for the evaluation of student performance but also for student placement. Uniform performance objectives and tests based on identifiable competencies should be cooperatively developed by faculty possessing the necessary expertise from all community colleges, with input from the secondary level.



Problem 5. Information on specific recommendations and procedures for articulation in each of the four areas has not been widely disseminated among faculties on both secondary and community college levels and between the two levels because of the unofficial nature of the Articulation Report.

As a result, only those instructors who participated in the Institute are knowledgeable about the recommendations. Most instructors lack knowledge of the extent to which the recommendations have been implemented in other schools and colleges. For example, the existence of new course credit options at a particular community college and the willingness of all community colleges to accept high school certification of typing and shorthand competencies are not generally known. Consequently, not all efforts to improve vertical articulation have resulted in direct benefits to students.

Recommendation:

Upon implementation in the community colleges of course content equivalency through uniform performance objectives in a given subject area; or systemwide willingness to accept high school certification as a basis for placement in community college typing and shorthand; or systemwide changes in course descriptions, content, titles, numbers or credits; or the availability of new course credit options at any community college, information on such implementation should be transmitted by the Chancellor for Community Colleges to the Superintendent of Education for dissemination, through established channels, to administrators, students, teachers, counselors, and registrars.

Problem 6. Counselors in the secondary schools and community colleges need to be more fully informed about the articulation agreements so that they may advise students of the existence of various course credit options on the community college level; become more knowledgeable about the requirements and needs of vocational education programs; establish open lines of



communication with vocational education instructors; and more effectively guide students in planning integrated programs on the secondary and community college levels.

Recommendations:

- 1. Counselors on both the secondary and community college levels should be more actively involved in articulation efforts. Provosts and D.O.E. district superintendents should actively encourage counselors to participate in articulation efforts and to acquire and apply knowledge gained about vocational education programs towards improving articulation in vocational counseling and guidance between the secondary and post-secondary levels.
- 2. The D.O.E. should incorporate an explicit statement of commitment to an articulated vocational counseling and guidance system in the State Master Plan for Comprehensive Guidance.
- 3. The Office of the State Director for Vocational Education should continue to make concerted efforts to provide information on the availability of vocational guidance resources.

Problem 7. Inservice education opportunities are not as accessible to neighbor island instructors as they are to Oahu instructors. The small number of instructors in a given vocational education subject area on each neighbor island makes offering workshops or University credit courses on those islands a costly process. At present there is no coordinated long-range inservice education plan developed cooperatively by the D.O.E. and community colleges.

Recommendations:

1. The D.O.E. Vocational-Technical Education Section and the Chancellor for Community Colleges should develop a coordinated, annual, and long-range inservice education plan for vocational education instructors.



- 2. Inservice training opportunities should be flexible enough to accommodate the needs of neighbor island instructors. One means of doing so is to offer intensive workshops or courses on Oahu during the summer, when neighbor islanders may attend them.
- 3. The State Director for Vocational Education should continue to fund inservice education for vocational education instructors.
- 4. Coordination of scheduling and procedural matters such as number of credits and cost should be handled (1) in the D.O.E. by the district superintendents in consultation with the D.O.E. State Personnel Office, and (2) in the community colleges by the Office of the Chancellor for Community Colleges.



SPECIFIC RECOMMENDATIONS

Automotive Mechanics Technology

Accomplishments in Implementation:

- Informal agreements have been made between some high schools and community college instructors to accept students for placement in advanced community college courses on the basis of the high school instructor's recommendations. These agreements are mainly with high school automotive instructors of the Pre-Industrial Program (P.I.P.).
- 2. Communication between automotive instructors has been greatly facilitated. Instructors feel free to call each other and work cooperatively on various aspects of their programs. High school and community college instructors on Oahu work jointly on displays for the annual Craftsman's Fair. This interchange facilitates knowledge of each other's programs.
- 3. Inservice workshops have been funded by the Office of the State Director for Vocational Education to upgrade instructor competencies, utilizing community college facilities and instructors. In automotive mechanics, a Honolulu Community College instructor is voluntarily conducting inservice training for Oahu high school instructors. Oahu automotive teachers have developed a five-year plan for inservice training. An intensive ten-day summer workshop will be offered in June, 1975, through General Motors Overseas Distribution Corporation. The fact that the workshop will be offered during the summer will allow neighbor island instructors to avail themselves of this inservice training opportunity.



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- 4. Honolulu, Leeward, and Kauai Community Colleges have sought high school representation on their automotive mechanics advisory committees to promote mutual awareness of programs on both levels and to obtain advisory input from industry more efficiently.

 Vertical articulation between the Oahu high schools and industry has been improved through high school instructor representation on AUTO, the automotive technicians' professional organization.

 Knowledge thus gained about professional concerns and new developments and needs of industry is disseminated through the Hawaii Automotive Teachers Association, which was formed by high school and community college instructors on Oahu after the Articulation Institute.
- 5. Automotive instructors on Maui from the high schools and community college participated in a joint meeting during a Fall, 1974 workshop, sponsored through the Office of the State Director for Vocational Education, to discuss ways of implementing the articulation recommendations for automotive mechanics.

Addendum: Since the body of this report was written, further accomplishments in implementation have occurred.

- 7. Maui Community College has initiated a pilot program to grant credit for equivalent automotive courses taken in high school.

 (For details, see page 39.)
- 8. Hawaii and Maui Community Colleges have high school representation on their automotive mechanics advisory committees.
- Problem 1. There is some misunderstanding on the part of community college faculty about automotive mechanics as (1) a vocational program and



(2) an industrial arts program on the secondary level. Because there is insufficient knowledge about the differences in objectives of the two programs, some community college faculty feel that community college standards for instruction and standards for employability in industry should be applicable to both the vocational and industrial arts programs on the secondary level. Since the level of automotive instruction in the industrial arts program is not seen as equivalent to vocational instruction on the community college level, some community college instructors are reluctant to award credit for previous automotive coursework simply on the high school instructor's recommendation, as suggested in the Articulation Report.

Recommendation: Community College

Provosts should initiate action on the cooperative development, by community college and secondary school vocational automotive instructors, of uniform performance objectives based on identifiable behavioral competencies for each automotive area taught. These competencies should be testable through uniform performance tests developed by community college personnel possessing necessary expertise with input from secondary school automotive instructors. Performance testing should be utilized as a means of integrating the student's program on the secondary and community college levels without time-consuming duplication of coursework. Where the student, through performance testing, is able to demonstrate competency required by a given course through prior education or on-the-job training, such competencies should be recognized by awarding the number of credits allowable for that course.

Recommendations: D.O.E.

 Secondary school automotive instructors should, through cooperative effort with community college automotive instructors, provide input in the development of uniform performance criteria and tests at the community college level. 2. Counselors and automotive instructors should actively encourage students to exercise this credit option as a means of eliminating time-consuming duplication of coursework and achieving a more integrated program. This active encouragement may make the credit-by-examination option a more viable alternative. At present it is underutilized because of student fear of failure, ignorance of the option, and lack of self-confidence.

Problem 2. Inservice training opportunities are not as widely available to automotive instructors on the neighbor islands as they are to instructors on Oahu.

Recommendation: Community College and D.O.E.

Inservice training opportunities in automotive mechanics made available through workshops and University credit courses on Oahu should continue to be made available during the summer or at times which would allow participation by neighbor island instructors. Upgrading of instructor competencies is important as instructional quality is determined by the instructor's competence. The quality of instruction in turn influences the extent of student learning. Upgrading instructor competencies, hence, will result in improved learning opportunities for students.

Problem 3. There is no secondary school instructor representation on the automotive advisory committees of Hawaii, Kauai, and Maui Community Colleges.

Recommendation: Community College

The Provosts of Hawaii, Kauai, and Maui Community Colleges should initiate action to include secondary school representation on the college automotive advisory committees by contacting the D.O.E. District Superintendent on their respective islands. Secondary school representation on the advisory committees will facilitate communication between instructors on both levels, promote increased awareness of programs on both levels, lead to the development of a more articulated automotive mechanics program, utilize industry input more efficiently, reduce the need for separate advisory committees, and thus facilitate student transfer in as integrated a way as possible.



Recommendation: D.O.E.

District Superintendents on Hawaii, Maui, and Kauai should be responsible for submitting to the provost of the community college the name(s) of the elected secondary school representative(s) on the college automotive advisory committee.

NOTE: This recommendation has been implemented since the writing of this report.

- Problem 4. A community college systemwide automotive curriculum proposal was developed by seventeen community college automotive instructors as a result of problems identified through the Articulation Institute. The proposal has not been implemented at any college. Administrative review of the proposal on some campuses has identified the following implications:
 - a. Implicit in the proposal is a change in definition of vocational instructor workload, from one based on contact hours a week to one based on credit hours. Workload calculated on number of credit hours would use a reduced lab: credit ratio to more nearly approximate that of liberal arts instructors. This change has several implications:
 - Additional instructors must be hired, as present instructors would teach fewer hours.
 - 2) Automotive instructors would be the only vocational education instructors whose workload approximates that of liberal arts instructors.
 - 3) If a reduced lab: credit ratio were implemented, there is a possibility that on some campuses quality of the program would be reduced for students. Furthermore,



instructors may need to be paid overload compensation if the total number of instructional hours is to remain the same.

- b. Justification for program changes was insufficiently established.
- c. The rationale and authorized channels for changing course numbering need to be clarified. The present course numbering indicates the place of a particular course in a curriculum. However, it does not adequately identify vocational/technical areas acceptable for both associate degree programs and some baccalaureate programs.

Recommendations: Community College

- The Chancellor for Community Colleges upon consultation with the Statewide Curriculum Council, should specify appropriate channels for the consideration of systemwide curriculum proposals. The Chancellor should specify channels for considering changes in definition of vocational education instructor workload.
- 2. Because recommendations which entail changes in instructor workload are difficult to implement because of fiscal constraints and differences in philosophy governing instructional mode and program operation, instructors should strive for course content equivalency through uniform performance objectives and tests based on identifiable competencies, until such time as workload and philosophical issues can be resolved. The question of who is responsible for determining and maintaining course equivalency should be answered. All new courses should be established on the basis of equivalency.



Business Education (Typing and Shorthand)

Accomplishments in Implementation:

- All community colleges are willing to accept students for placement in advanced level typing and shorthand on the basis of certification by high school instructors on the basis of specified performance criteria.
- 2. The certification proposal has been implemented at Hilo High School and Hawaii Community College. Of the seven students certificated thus far, one is currently enrolled in an advanced typing class.
- 3. The Kauai D.O.E. district office has printed parchment certificates of proficiency calling for the principal's as well as the instructor's signatures. The Kauai Community College Provost has informed the college counselors, registrars, and business instructors of placement procedures upon presentation of the certificate by students. Information on certification procedures has been disseminated to all secondary schools on Kauai by the District Office.
- 4. The Provost of Maui Community College and the Maui District
 Superintendent are making cooperative plans to implement the
 certification proposal for typing and shorthand,
- 5. Action has been taken at Leeward Community College to make the credit-by-examination option more viable to LCC students.

 Through cooperative efforts with a Kauai Community College business instructor and a Pearl City High School business instructor, uniform placement examinations for beginning level



typing and shorthand were developed and will be routinely administered to Kauai and Leeward Community College students in beginning level typing and shorthand. The exam will also be administered to selected classes at Pearl City High School. These uniform placement examinations will be especially useful for students who have not had an opportunity to be certificated in high school but who meet performance criteria and would therefore be eligible for placement in advanced level typing and shorthand.

Problem 1. Although Kapiolani, Windward, and Leeward Community Colleges are willing to accept students for placement in advanced typing and short-hand on the basis of certification, no students have presented certificates.

Recommendation: Community College

Provosts of Kapiolani, Windward, and Leeward Community Colleges should inform counselors, registrars, business education instructors and registration advisers of placement and credit procedures through certification, in the event that certification procedures are implemented in all D.O.E. districts.

Recommendation: D.O.E.

- District Superintendents on Oahu should consider implementing the recommended certification procedures for typing and shorthand. If the procedures are implemented, thus effecting statewide implementation, the Superintendent of Education should send notification to the Office of the Chancellor for Community Colleges for dissemination of the information to all Provosts.
- 2. The Vocational-Technical Education Section of the D.O.E. should consider printing uniform certificates of proficiency to be used in certification procedures throughout the State. If uniform certificates are not used, samples of the various certificates in use in the districts should be sent to



Hawaii, Maui, Kauai, Kapiolani, Leeward, and Windward Community Colleges. Because students are increasingly mobile from one geographic region to another, it is important that registration advisers, registrars, counselors, and business education faculty at the various community colleges be familiar with the different certificates in use.



Drafting

Accomplishments in Implementation:

- 1. At Leeward Community College, a high school instructor has been hired to teach the introductory drafting course. Though it was not a specific recommendation in the Articulation Report, this cooperative use of faculty promotes mutual knowledge of the program at both levels and leads to more coordination in programs and in instruction.
- Inservice training opportunities have been made available to upgrade competencies of drafting instructors. Workshops, funded through the Office of the State Director for Vocational Education, were conducted for Oahu instructors during the summers of 1973 and 1974 at Leeward Community College. A University credit course is being offered through the College of Education during the Spring '75 semester.

Plans are being made for an inservice workshop at Maui Community College to upgrade competencies of secondary school drafting instructors in Maui County. As a result of joint participation by secondary school and community college instructors, it is expected that there will be improved communication on the secondary level and between the secondary level and MCC, resulting in improved vertical articulation.

3. Plans to increase available student options in drafting by developing specialized courses are being made at Leeward and Kauai Community Colleges. A civil engineering drafting option is being considered at Leeward as part of a proposal for a more comprehensive drafting program. Kauai Community College is also



considering making available an engineering drafting course option, utilizing the local Society for Professional Engineers and Architects as possible lecturers on a rotating basis. This vertical articulation with industry will keep the KCC program updated in terms of professional developments, concerns, and employment needs.

- 4. An "Introduction to Drafting" course has been added to the drafting program at Maui Community College as a result of the drafting curriculum proposal developed in the Articulation Workshop. The course accommodates the needs of students without a drafting background but with avocational or vocational interests in drafting.
- 5. An evaluative instrument has been developed cooperatively by drafting instructors from Leeward Community College and the D.O.E. The instrument is to be used to evaluate levels of student accomplishment in drafting. Feeder high schools to Leeward Community College have been contacted for field-testing the instrument in Spring 1975. Upon validation of the instrument, it will be used as an aid to instruction. With specific knowledge of student levels of accomplishment, instructors will be able to tailor their instruction to the specific needs of students.

Addendum: Since the body of this report was written, further accomplishments in implementation have occurred.

6. Honolulu Community College has initiated vertical articulation meetings in drafting with Honolulu high schools, and has pre-



pared a folder containing information on the HCC drafting program for dissemination to neighbor island high schools.

Problem 1. The drafting program proposal detailing uniform course titles and numbers for the community colleges cannot be considered for implementation until questions concerning the numbering of vocational courses are resolved. What must be determined are courses which are acceptable for both associate degree programs and some baccalaureate programs, and appropriate changes in course numbering.

Recommendation: Community College

An ad hoc committee of the Statewide Curriculum Council has been established to review and make recommendations on the course numbering system. Until such time as questions are resolved, Provosts should support drafting instructors in attempts to improve the horizontal articulation of drafting programs through course content equivalency in the form of uniform performance objectives and tests. These objectives and tests should be based on identifiable behavioral competencies. Hawaii, Honolulu, Kauai, and Maui Community Colleges may want to review the evaluative instrument developed cooperatively by Leeward Community College and DOE drafting instructors for possible use in their drafting programs.

Problem 2. Workshops and University credit courses have been available for drafting instructors on Oahu. Plans are underway for a workshop on Maui. Hawaii and Kauai instructors have limited opportunities for participation in these workshops and courses.

Recommendation: Community College and D.O.E.

Intensive summer workshops and courses on Oahu should be available as one means of accommodating the needs of both Oahu and neighbor island drafting instructors.



Problem 3. There is a need for a closer communication link between the secondary school and community college drafting programs. Better understanding of the aims and purposes of the program at the two levels would enable students to have a more integrated program on the secondary and community college levels.

Recommendation: Community College

The community colleges with drafting programs should invite the participation of secondary school drafting instructors on the drafting advisory committees of the colleges.

NOTE: Since the writing of this report, steps have been taken, or will be, to implement this recommendation.



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Food Service

Accomplishments in Implementation:

- New Food Service credit options have been made available at
 Kapiolani Community College. FS 140 credits are available
 for 1) high school cooperative education experience or
 2) a grade of "C" or better in Food Service II on the sec ondary level. FS 120B and C and FS 123B credits are available
 with a grade of "C" or better in Food Service I on the second ary level.
- 2. The systemwide course numbering and description proposal has been implemented at Kapiolani Community College with slight modification. (The letter A originally recommended in the Articulation Report is not being used with course numbers, as its use is reserved for selected studies courses.)
- Problem 1. Approval by the curriculum committee of individual colleges is not a sufficient basis for making community college systemwide changes in Food Service course numbering or titling. Efforts to implement the systemwide proposal on the basis of college curriculum committee approval have resulted in uneven implementation. Horizontal arriculation is difficult to achieve in this manner.

Recommendation: Community College

The Statewide Curriculum Council should disseminate to all community colleges information on authorized procedures necessary for making systemwide changes in course numbering and titling. If authorized procedures are followed and necessary approval obtained, implementation should occur at the same time on all campuses with food service programs. Information on implementation should be given by the Office of the Chancellor for Community Colleges to the Superintendent of Education for dissemination in secondary schools.



Problem 2. The recommended Food Service credit options are not yet available at Leeward and Hawaii Community Colleges. These options would enable students to progress through the college foods program in a more integrated way without unnecessary duplication of coursework. The credit options recognize the legitimacy of competencies gained through experience on the job and through previous educational experience.

Recommendation: Community College

Hawaii and Leeward Community College Provosts should direct the consideration of the food services course credit options. If the options are to be made available, the Provost should inform the college registrar, registration advisers, counselors, and food service instructors.

Recommendation: D.O.E.

Foods program instructors on the secondary level should work in closer coordination with community college instructors so that students would be prepared on the secondary level to exercise the course credit options at the community college level.



ADDENDUM

An administrators' meeting on articulation was held on March 14, 1975. In attendance were all provosts and deans of instruction from the community colleges, and district superintendents or deputy district superintendents, curriculum specialists, and program specialists from the Department of Education. The community college and D.O.E. administrators met in separate working sessions. Available as resource persons were team leaders or their assistants from automotive mechanics, business education, drafting, and food service.

- The meeting sought an administrative consensus on
- . "1. the recommendations from this report.

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- the specification of where authority and responsibility for review, revision, approval, and implementation of articulation recommendations lie.
- 3. the establishment of procedures or mechanisms for implementation and the resolution of problems or questions arising from implementation efforts.

The following are reports of the discussions. All district superintendents reviewed and accepted the D.O.E. report. The Council of Provosts will take official action to adopt the guidelines and responsibilities delineated at the March 14 meeting.



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ADMINISTRATORS' MEETING ON ARTICULATION REPORT - DEPARTMENT OF EDUCATION SESSION

I. General Recommendations

- State Board for Vocational Education: Formally endorse the concept and intent of articulation.
 - a. Group recommended approval and implementation by the State Board.
 - b. Time schedule: As soon as possible.
- 2. State Board for Vocational Education: Establish a position in the State Director's office to evaluate programs including articulation.
 - a. Group recommended approval but that the State Board should give priority to the restoration of positions of Asst. State Director and fiscal officer to the State Director's staff, with consideration being given to the assignment of evaluation and articulation responsibilities to the Asst. State Director rather than establishing a new position.
 - b. Time schedule: July 1, 1975
- 3. Counselors: Acquire and apply knowledge of vocational education programs towards an articulated vocational counseling and guidance system.

Group recommended approval with the following additional considerations:

- a. That an explicit statement of commitment to an articulated vocational counseling and guidance system including knowledge of vocational education programs be incorporated in the State Master Plan for Comprehensive Guidance.
- b. That the Office of the State Director should continue to make concerted efforts to provide information on the availability of resources (such as through the Career Information Center).
- c. That to the extent that attendance at workshops to enable counselors to acquire such knowledge is voluntary, district superintendents should encourage counselors to participate.



II. Specific Recommendation - Business Education (Typing and Shorthand)

Combine pts. 1 and 2 on agenda to read as follows:

Department of Education: Implement the recommended certification procedures for typing and shorthand Statewide and provide uniform certificates of proficiency to be used in certification procedures throughout the State. (By "Department of Education" is meant the State office through the Voc.-Tech. section.)

Time schedule: September, 1975

III. Recommendations for all Subject Areas

(Note: the group reorganized agenda items because it was felt certain problems were common to all subject areas and should be considered as a whole.)

1. Inservice Education

- a. Funding Responsible Agent: State Director for Vocational Education

 It was recognized that the funding needed to come from the State Director.
- b. Scheduling Responsible Agents: District Superintendents in consultation with the State Personnel Office. Scheduling covers both the calendar as well as the location of in-service classes.
- c. Procedures Responsible Agents: District Superintendents in consultation with the State Personnel Office. Matters involving credit, cost, etc.
- d. Participation Responsible Agents: District Superintendents and individual instructors.
 Participation is voluntary but District Superintendents will encourage participation.
- e. Plan Responsible Agents: DOE State Vocational-Technical
 Education Section, U.H. Chancellor
 for Community Colleges.
 Recommendation is for a coordinated annual and long-range
 in-service education plan to be worked out with the U.H. Community Colleges.



f. Priority - Responsible Agents: DOE State Vocational-Technical Education Section with District Superintendents

Time schedule: As soon as possible.

2. Competency Criteria

(Note: The following assumes <u>horizontal</u> articulation which needs to be completed at the <u>community</u> college level.)

a. Levels of Proficiency - Responsible Agents: Community College

Community College provosts and D.O.E. specialists. Provosts should initiate meetings to include community college and secondary school instructors working jointly.

- b. Development of Measurements (same as above)
- c. Setting of Minimum Standards (same as above)
- d. Procedures in consultation with District Superintendents and DOE State office.
- e. Certification DOE State office
 It was recognized that certification may not lend itself to every
 subject area. A specific recommendation in Auto Mechanics was
 that Honolulu Community College be designated to take the initiative.

Time schedule: As soon as possible with first priority to Auto Mechanics since groundwork for cooperation is already existing.

IV. Miscellaneous

- 1. Horizontal articulation has first priority.
- 2. Group did not establish priority among subject areas indicating that this should be a responsibility of the DOE State Voc.-Tech. section.
- 3. Review process is already in existence for DOE through District Superintendents.
- 4. No permanent implementation mechanism was recommended due to lack of time to discuss alternatives.



REPORT: ARTICULATION GUIDELINES AND RESPONSIBILITIES DELINEATED BY PROVOSTS

March 14, 1975

The discussion of March 14 resulted in

- 1. a delineation of basic guidelines on articulation according to which the community colleges hope to operate, and
- 2. an identification of areas of responsibility of the Provosts, the Office of the Chancellor for Community Colleges, the Office of the State Director for Vocational Education, and the State Board for Vocational Education.

For purposes of definition, it was agreed that articulation refers to a uniformity of understanding rather than standardization of all courses or programs.

The context within which the discussion took place was a classification scheme developed by Ralph Miwa, which addressed itself to the need for arriving at guidelines which were conceptually applicable and agreeable to all fields in vocational education.

The following are the basic guidelines on articulation which were agreed upon.

I. ARTICULATION GUIDELINES

- Support the general concept of course equivalency but refer for further study the review and choice of a model or models for course equivalency in vocational education. All campuses will strive seriously toward uniform course numbering for courses with equivalency in content.
- 2. Support the concept of a performance objective oriented approach to vocational education. (Agreement on the development of uniform performance objectives, provided that levels of attainment can be an individual campus decision.)
- 3. Support and review evaluative instruments developed cooperatively by instructors from the community colleges and the D.O.E. (Agreement on need for criterion testing.)
- 4. Initiate action to include participation of instructors from the secondary level and, where possible, other community colleges on each community college's vocational-technical advisory committee(s).



5. Request that vocational education inservice training opportunities through workshops or courses be held at times, such as summer, which are flexible enough to accommodate the needs of both Oahu and neighbor island instructors.

II. AREAS OF RESPONSIBILITY

The following were agreed to as appropriate areas of responsibility for the Provosts, the Chancellor for Community Colleges, the State Director for Vocational Education, and the State Board for Vocational Education.

Provosts: 1. Commitment to improving articulation between program areas

- 2. Consideration of course numbering matters
- 3. Development of performance objectives
- 4. Additions to membership on college advisory committees
- 5. Strengthening vocational guidance and counseling

Chancellor for

- Community Colleges: 1. Systemwide coordination of inservice training, especially with reference to dates, number of credits, workshops or courses offered.
 - 2. Systemwide coordination of efforts to improve horizontal articulation
 - Transmittal of information on implementation of recommendations on community college level to the Superintendent of Education for dissemination through established channels.

State Director for Vocational Education:

Coordination of community college efforts to articulate vertically with the Department of Education

State Board for Vocational Education:

- 1. Commitment to the concept and intent of articulation
- 2. Establishment of position counts in (a) the Office of the Chancellor for Community Colleges for horizontal articulation, (b) the Office of the State Director for Vocational Education for vertical articulation.



III. TIME FRAMES FOR IMPLEMENTATION

No single time frame can be applied to all community colleges, as implementation is dependent on budgetary factors. Provosts will consult with their fiscal officers on the possibility of implementation through (1) state general funds as a campus budget item, and (2) federal vocational education funds, through the Office of the State Director for Vocational Education.

IV. FOLLOW-UP TO THIS MEETING

- The recommendations from the second and third Articulation Institutes will be examined by Minnie Boggs to see how they fit in with the general guidelines accepted. Those recommendations not covered by these general guidelines will be reviewed at another meeting.
- 2. The Articulation Guidelines and delineation of areas of responsibility will be forwarded to Walter Chun, Director of Community College Services, for official action by the Council of Provosts. The Council will forward recommendations to the State Board for Vocational Education for further action on items which are beyond the provosts' domain.
- 3. The Council of Provosts will be responsible for establishing an alternative means of coordinating horizontal and vertical articulation efforts in the event that the recommended positions in the Office of the Chancellor for Community Colleges and the State Director for Vocational Education are not established.
- 4. As an individual campus responsibility, provosts will initiate action towards the development of a performance objective oriented approach to vocational education.
- 5. The Office of the Chancellor for Community Colleges will coordinate the beginning of implementation efforts to develop a model or models for performance objectives on individual campuses.



APPENDIX A

AUTOMOTIVE MECHANICS, BUSINESS EDUCATION, DRAFTING, AND FOOD SERVICE

PROGRAMS IN THE COMMUNITY COLLEGES*

December, 1974

	Automotive Mechanics	Business Education	Drafting	Food Service
Hawaii CC	х	х	х	х
Honolulu CC	х		х	х
Kapiolani CC		х		х
Kauai CC	х	х	х	
Leeward CC	х	х	х	х
Maui CC	х	х	х	
Windward CC		х		

*This chart shows which of the four vocational education program areas discussed in the FY 73 Articulation Institute are offered by each community college. It is not a complete listing of all vocational education programs in the community colleges.



APPENDIX B

STATUS REPORT: IMPLEMENTATION OF FY 73 ARTICULATION RECOMMENDATIONS ON THE POST-SECONDARY LEVEL





AUTOMOTIVE MECHANICS TECHNOLOGY November 1974

Other Tom 1 cont	suo i reations	If the proposal is implemented and additional positions are not obtained, the quality of the instructional program may be compromised, as students may not be able to have as much handson experience as they need. Adoption of proposal by only HCC does not accomplish horizontal articulation.	The DOE District Superintendent for Hawaii should contact the Provost of Hawaii Community College to set up an official communication channel to be used on a recular hasts		-4	If credit by examination is administered on a large-group basis, instructor workload will be increased.
Cost	Reg Fee	The cost implication of the proposal is a need for additional positions, as the contact hour: credit hour ratio would be reduced to bring it more in line with libture/lab	None	None	None if pro- posal is im- plemented with- out change in instructor	None
Expected Outcomes	Instructional quality is determined by an instructor's competence. The quality of instruction influences the extent of student learning. Upgrading instructor competencies will result in improved learning opportunities for students.	Adoption of proposal is a step toward statewide uniformity in the automotive mechanics curriculum. However, further action may be held in abeyance until the Statewide Curriculum Council issues guidelines on course numbering and titling changes.	The expected outcome is improved vertical articulation between secondary and post-secondary levels in curricula and student programs.	Instructional quality is determined None by an instructor's competence. The quality of instruction influences the extent of student learning. Upgrading instructor competencies will result in improved learning opportunities for students.	Improved horizontal articulation of automotive curricula.	The expected outcome is improved vertical articulation. Students will be able to complete their education in less time and at less cost, or receive more comprehensive education.
Responsible Agent	State Director for Vocational Education	Automotive	Provost and 'beputy Dis- trict Superin-	HCC automotive instructor and department chairman	Automotive department chairman, Dean of Instruction, Provost	Automotive instructors
Description of Implementation	A 2-week intensive summer workshop will be held for automotive instructors on both secondary and community college levels in June through General Motors Overseas Distribution Corporation. 3 credits may be earned.	Automotive mechanics curriculum proposal (drafted duting 3/73 statewide workshop) has been revised and resubmitted for Curriculum Committee and Dean of Instruction approval.	The Provost and DOE Deputy District Superintendent both support an official communication channel between the secondary and postsecondary levels.	1. An inservice workshop is being HCC automotive voluntarily raught by an HCC in- instructor and structor for DOE instructors who department want to upgrade their skills in chairman auto mechanics.	2. Implementation of the system- wide course proposal will be con- sidered only if no change in fac- ulty workload is involved, and if questions concerning the renumber- ing of courses can be resolved.	 Credit options available are a. credit by examination b. credit on the besis of high school instructor's recom- mendation.
Extent of Implementation		Full Partial X None *See Addendum on page 39.		Full Partial X None **Sec Addendum on page 39.		Full Partial X None *See Addendum on page 39.
Community	All Community Colleges	Hawaii	3	Honolulu		Leeward

Other Implications	Consideration should be given to whether formalizing input from the secondary level via membership on the committee might secure more input on a regular basis. Also, part of the rationale for having a secondary level member on the committee was to keep the secondary level instructors informed of program concerns on the community college level and of industry membership on another advisory committee.		There should be follow-up meetings or visits to each campus with an automotive program to improve communication between instructors and establish a realistic, basis of knowledge of programs. A result of this information exchange may be greater utilization of credit options by students.		More instructor contact is needed between MCC and Baldwin and Mauf High Schools to establish a realistic understanding of each other's programs and cooperative attitude towards vertical articulation.	entation on their advisory	equivalent automotive courses taken in high school. Itse in any secondary or post-secondary school with a grade of "C" or better may be Lahainaluna High School with a grade of "B" or better as his second year final grade and 4 MCC credits for AMIS2 (Engine).		
Cost / Factors	None	None for what was imple- mented	Minimal dup- lication costs	None for what was imple- mented	None	school repres	n in high schodary school wi dery school wi de of "B" or b		
Expected Outcomes	The expected outcome is improved vertical articulation. Students will be able to complete their education in less time and at less cost, or receive more comprehensive education.	<pre>fmpro. "4 hoxizontal articulation is the expected outcome.</pre>	The expected outcome is better vertical articulation resulting from secondary school instructors' knowledge of the KCC auto mechanica program.	Improved horizontal articulation of curricula is the expected outcome.	Improved vertical articulation of MCC curricula and student programs in the expected outcome.	initiated steps to include secondary school representation on their advisory	credit for equivalent automotive courses taken in high school. Comotive course in any secondary or post-secondary school with a grade of "C" or better may be courses at Lahainaluna High School with a grade of "B" or better as his second year final granks System) and 4 MCC credits for AMIS2 (Engine).		
Responsible Agent	Community col- 7 lege advisory v committee v committee		Automotive	Automotive instructor	Automotive instructors ,	programs have	grant credit for an automotive cour). ocive courses at ve Brake System)		•
Description of Implementation	2. High school automotive instructors in the Leeward area are invited to attend and provide input at the community college advisory committee meetings.	1. Systemulde course proposal is Automotive being followed in the instructionalinstructors content of present courses.	 Course outlines have been sent to the Kauai District Office for distribution on the secondary level. 	1. Systemwide course proposal is Automotive being followed in the instructionalinstructor content of present courses.	 Vertical articulation: instructor contact between MCC and Lahainaluna High School. 	ADDENDUM 1. Since November, 1974, community colleges with automotive programs have committees.	Community College has initiated a pilot program to grant An MCC student who has completed one semester of an aut awarded 4 credits for AMT49 (Automotive Servicing). An MCC student who has completed 2 years of automotive will be awarded 3 MCC credits for AMT53 (Automotive Bra		
Extent of Implementation		X X Gendum	***************************************	X	• • • • • • • • • • • • • • • • • • • •	November, 1974,	Community College An MCC student awarded 4 cred An MCC student will be awarde		
RIC Signer of the state of the	v	Kauai		Maus	54	ADDENDUM 1. Since commit	2. Maui G	-	39



BUSINESS EDUCATION (TYPING AND SHORTHAND) December, 1974

					•
Other Implications	There is a need for information dissemination to HCC registration advisers regarding use of the certificate for placement. The Provost should send to the Hawaii DOE District Superintendent written confirmation of credit and placement procedures implemented at Hawaii CC.	The registrar and counselors should also be informed of certification and placement procedures in the event that students do present certificates for placement. The admissions office should be informed of these procedures for purposes of awarding credit.			
Cost Factors	Minimal costs of printing certificates			Cost of printing certificates	•
Expected Outcomes	Students will their course quickly with cation. Fre repeat cours more advance coursework.			Students will be able to complete their coursework at KCC more quickly without unnecessary duplication. Freed from the need to repeat coursework, they may take more advanced level or specialized coursework.	
Responsible Agent	Hilo High School busi- ness instruc- tors and Hawaii Com- munity College Business Div- fision Chair- person.	Provost, Dean of Instruc- tion, Business Division Chairman		KCC Provost, DOE District Superinten- dent, Deputy District Sup- erintendent, and Curric- ulum Spe- cialist for Secondary Education	
Description of Implementation	The certification proposal has been accepted and implemented at Hilo High School using certificates printed by the business department. Of the 7 students certified by Hilo High, 1 student was enrolled in the Huwaii Community College advanced level typing class as of Fall '74.	Kapiolani Community College is willing to accept students for placement in advanced level business courses on the basis of certification. However, no student has presented a certificate for placement. At present students may earn credits as soon as individualized self-paced modules are completed.	been informed of certification procedures.	KCC business instructors and secondary level business instructors have participated in joint articulation meetings to consider the implementation of the articulation recommendations. The Kauai DOE District Office has printed certificates of proficiency which call for the principal's as well as the instructor's signature. KCC Provost has sent to the Kauai DOE District Superintendent writter confirmation of the credit and certification procedures. The District Superintendent has disseminated the information to the high school instructors and counselors. KCC Provost has informed KCC counselors, registrar and registration advisors of the certification and credit procedures.	
Extent of Implementation	Full X Partial None	Full Partial X None		Full X Partial None	•
Community	Havaii	Kapiolani		Kauai 22	40

ER	Extent of	Description of	Responsible	Expected	Cost	Other
Lectard	Implementation Full Partial X None	1. Action has been taken to make Business eduthe credit by exam option more via-cation division ble to students. Uniform placement chairperson exams for typing and shorthand were examily college representative sentative and a DOE representative. Exams where administered to LCC students in Fall '74. Exams will also be used at Kausi Community College and at Pearl City High School. 2. LCC Curriculum Committee appro- Business eduval is needed before credits for cation divibed minning level work can be awarded sion chair- upon successful completion of the seek curriculary course.	Agent Business education division chairperson Business education divi- sion chair- seek curricu- lum committee approval.	Outcomes The routine administration of extense should bypass the problem of student failure to exercise this option due to lack of initiative, lack of self-confidence, or lack of knowledge that the option exists. Students will be able to complete coursework requirements at LCC (or Kausi Community College) without unnecessary duplication. Students will be able to take advanced courses without repreating the introductory course and receive credit for the introductory course upon satisfactory completion of the advanced course.	N S S S S S S S S S S S S S S S S S S S	Implications 1. Other Community Colleges should consider the use of the same placement all colleges. 2. The large amount of time involved in administration and correction of the exams has workload implications. Registrar, Dean of Student Services, Counselors, and business instructors will need to be informed if approval is obtained.
Ting 41	Full Partial X None	A Fall workshop on Articulation was thoused by EDA Part F funds through the Office of the State Director for Vocational Education, in response to a joint request by Maul Community College and the Maul DOE District Office. Among those present were 3 MCC business instructors and 4 secondary level business instructors and 4 secondary level business instructors. All accepted the certification proposal and recommended the following for implementation: 1. Maul District Office should print certificates to be used beginning January 1975. 2. Copies of minimum criteria requirements for certification should be made available by the Maul District Office to all secondary schools on Maul offering Typing and Shorthand. 3. MCC Business Education Division Chairman should inform registers and counselors at MCC as well as on the secondary level about the certification procedure, so that they may encourage students to exher may encourage students to exher may encourage students as on the receive a copy of the criteria and certificate. 4. MCC Provost should send to the way may encourage students and certification for the criteria and certification procedures in the Maul DDE District Superintendent written confirmation of the credit and certification procedures in the District Superintendents the Maul DDE District Superintendents in the District Superintendents in the District Superintendents the Maul DDE District Superintentents in the District Superintentents and certification procedures in high schools.		With the implementation of the certification proposal, students will be able to complete their coursework at MCC more quickly without unnecessary duplication. They may thus take more advanced level or specialized coursework.	Costs of printing cer- tificates and copies of min- imum criteria for certifi- cation	
•						

Other	The DOE Windw dent should c of initiating cation propos inform the re certification in the event certificates				
Cost			_		
Expected Outcomes					
Responsible Agent	Provost, Dean of Educational Services, Bus- iness Education instructors	·•			
Description of Implementation	e is s for el busi- of cer- student te for	mile	•		
Extent of Implementation					
musty			,	57	42

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Other Implications	Workshops and courses need to be held to accommodate the needs of neighbor island drafting instructors.	The consideration of the recommended drafting program proposal is being held in aboyance until further notice from the Vice-President for Academic Affairs.			Performance tests may need to be developed as a measure of the extent to which uniform performance objectives are attained by students.	•
Cost Factors	Instructor costs at \$280/ credit hour	Air fare and meals	1. Costs of conducting a manpower study 2. Costs of instructor's salary: \$280/credit hour	None unless meetings are held involving neighbor is- landers. Cost then would in- clude airfare and possible per diem.	Possible increase in increase in increase in increase in increase in increase in struction of all students at the same intervals	,
Expected Outcomes	Upgrading instructor competencies will result in better preparation of students.	A Statewide Curriculum Council ad hoc committee is reviewing University policy on course numbering. Guidelines are expected for the numbering of new courses and the renumbering of present courses.	Needs assessment will facilitate program planning and determine which options are feasible for implementation. In-scrvice courses will upgrade worker skills.	Vertical articulation between secondary schools and the community colleges and the Manoa campus would make student transfer more economical in time and effort.	Teaching towards uniform perform- ance objectives is a means of at- taining course content equivalency, struction wor which facilitates horizontal ar- ticulation among the community col- leges. This in turn facilitates ance testing vertical articulation with the all students secondary schools.	
Responsible Agent	State Director for Yor cational Education, University of Hawail College of Education and Continuing Education	Drafting Instructor	Provost, Dean of Instruc- tion, Assist- ant Dean of Instruction	Provost, Dean of Instruc- tion, Assist- ant Dean of Instruction	Provost, Dean of Instruc- tion, Assist- ant Doan of Instruction	
Description of Implementation	A University credit course EDCI 583 Practicum in Curriculum Development: Industrial Education (Drafting) will be offered for community college and high school instructors during Spring, 1975.	Participation in statewide drafting workshop which produced a recommended drafting program detailing course titles, numbers and credit allocations on the community collegelevel.	Recommendations were considered for implementation. Conclusions were: 1. No manpower needs assessment has been made on which to base expansion of the drafting program to include the recommended options. A student receiving narrowly specialized training may find his employment opportunities limited. HCC prefers to offer these courses after work hours as a means of upgrading competencies once the student is employed and finds he needs specialized training.	2. More procedures need to be specified in operational terms for improving vertical articulation, both from high school to community college and community college drafting coursework is formally applicable to the architectural program at UH Manoa.	3. Agreement on uniform performance objectives for course content equivalency and student competency evaluation should be no problem as long as performance objectives are to be met after specified intervals such as at the end of the first year or upon completion of the program.	
Extent of Implementation		Full Partial X None *See Addendum on page 46.	Full Partial X None **See Addendum on page 46.			
Community College		Havaíí	Honolulu	58	43	

Other	Course titling is important because of the limited employment situation on taxual. Because jobs are scarce, it is important that system-wide course labeling not be restricting on a KCC student's employability.		There is a need to improve communi- cation with other high schools offering the drafting program.		Air fare and The consideration of the recommended meals for drafting program proposal is being held neighbor islandin abeyance until further notice from instructors the Vice-President for Academic Affairs.	Cost of one ad-Classroom space and an office will be ditional full necessary. time instructor	Classroom space will be necessary.	
Cost	ractors Air fare and meals	\$280/credit hour for in- structor's salv ary	None	None	Air fare and meals for neighbor islan instructors	Cost of one additional full	Costs of 12 units of in- struction: \$3,360/semester	
Expected	A Statewide Curriculum Council ad hoc committee is reviewing University policy on course numbering. Guidelines are expected for the numbering of new courses and the renumbering of present courses.	ail-	Vertical articulation will be im- proved.	There will be increased communication between secondary and post-secondary drafting instructors, resulting in greater knowledge of each other's programs and improved vertical articulation of programs. This facilitates student transfer from the secondary to post-secondary levels. A similar advisory committee for the secondary level will not be ne;essary.	A Statewide Curriculum Council ad Air fare an hoc committee is reviewing Univermeals for sity policy on course numbering, neighbor is Guidelines are expected for the num-instructors bering of new courses and the renumbering of present courses.	Drafting in- A more comprehensive drafting pro- Cost of one adstructors, Cur-gram will be available for students.ditional full riculum Committee, Dean of Instruction, Provost	Students will have an additional pption in areas of specialization.	
Responsible	urtfing in- A structor s s o o o o o	Drafting in-	-u]	Drafting in- structor structor	Drafting in-	Drafting in- structors, Cur- riculum Commit- tee, Dean of Instruction, Provost		
Description of	ratewide roduced a ram de- mbers and commun-	2. The mechanics have been set in the for an engineering drafting course option. The Society for Professional Engineers, Architects, and Surveyors will be contacted as a possible source of lecturers on a rotating basis.	3. Close communication between Drafting in- KCC and Waimea High School draftingstructors instructors, resulting in agreement on student competency criteria.	4. A high school drafting instructor will be added to the community college drafting advisory committee.	1. Participation in statewide drafting workshop which produced a recommended drafting program, detailing course titles, numbers and credit allocations on the community college level.	drafting program has been devised, consisting of 54 total credit hours. The present program consists of 42 total credit hours. Decision needs to be made on which courses should be required or elective.	3. Course outlines have been Drafting developed for the civil engineeringinstructors option and have been submitted for Curriculum Committee approval.	
Extent of	Full Partial X None				Full Partial X None *See Addendum on page 46.			
STE DE LEUR PROVINCIA DE LE CONTROL DE LE CO				59	Leevard			44

nity	Extent of Implementation	Description of	Responsible	Expected	Cost	Other	
ប		4. In-s conducted f Oahu drafti	Community Col- lege and DOE drafting in- structors, State Director for Vocational Education, Uni- versity of Ha- varia College of Education and Continuing Ed- ucation	Upgrading instructor competencies will result in better preparation of students.	Factors Instructor costs at \$280/ credit hour	Implications Workshops need to be held to accommodate the needs of neighbor island drafting instructors.	
		5. As a result of increased communication between counselors and voctech. instructors, course waiver or course substitute agreements with Division Chairman approval are now possible when a required course is not available.	Counselors and VocTech. Div- ision Chairman and instructors	Students will be able to progress through their program despite the fact that a required course may not be available.	None		
		6. Vertical articulation - a DOE high school instructor has been hired to teach the introductory drafting class in the afternoon.	Provost, Dean of Instruction, VocTech. Assoc. Dean and Division Chair-man.	Secondary level instructors will be more knowledgeable about the drafting program at the community college level. This should facilitate vertical articulation.	Instructor costs.	Rotation among high school instructors hired should facilitate vertical artic- ulation even more.	
		 Attempts have been made to form a drafting club for students. 	Drafting in- structors	A club would foster enthusiasm for drafting as a career as well as greater awareness of career opportunities in drafting.	None		
		8. An instrument has been dev- Drafeloped to evaluate levels of student accomplishment in draffing. Feeder high school drafting instructors have been contacted, and instrument will be tested in Spring 1975.	Drafting instructors from LCC and the DOE.	Instrument will be used as an aid to instruction. Knowing levels of student accomplishment will make it possible for instructors to tailor instruction to the specific needs of the students.	Costs of developing the instrument were funded through the office of the State Director for Vocational	Upon validation of the instrument, its use as an aid to instruction, and pos- sibly placement, should be considered by other community colleges with drafting programs.	
	Full Partial X None *See Addendum on page 46.	1. New course, "Introduction to Drafting," has been added to the drafting program as a result of the drafting curriculum proposal developed in the Articulation Workshops.	Drafting in- structor with approval from Curriculum Com- mittee, Dean of Instruction, and Provost.	There will be an increase in student course options to better accommodate students with varying inter wis (avocational vs. vocational) and degrees of competencies.	None		
		2. Communication between MCC and the Maui secondary schools on the course credit transfer option seeks to award credit for high school work in drafting.	Drafting in- structor with approval from Curriculum Com- mittee, Dean of Instruction, and Provost.	Upon formalized agreement between the secondary schools and the com- munity college, students will not have to repeat introductory courses at MCC. They will be able to com- plete their programs sooner and take more advanced courses.	None		, ,
				•			

Other	Implications		Provosts and Deans of Instruction need to consider the implications of changes in workload and numbering courses above 100.			school representation on their advisory	schools, and has prepared a folder				
Cost	Factors	Air fare for instructors from Lanai and Molokai to Maul. Mileage for Hana participant. \$280/credit hour for instructor's salary.	Air fare and meals.		,	y school repres					
Expected	Outcomes	MCC Drafting Instructional quality is determined instructor and by the instructor's competence. DOE Curriculum Quality of instruction influences Specialist in extent of student learning. Up-Secondary Edu-grading instructor competencies will cation. Tesult in improved learning opportunities for students. As a result of joint participation in the workshop, there will be improved communication between and among the secondary level and MCC, resulting in improved vertical articulation.	Upon further work on standardizing the number of credits as well as course content equivalency, horizontal articulation will be improved, thereby facilitating vertical articulation.		occurred:	included or will initiate steps to include secondary	ation meetings on drafting with Honolulu high semination to neighbor island high schools.				
Responsible	Agent	MCC Drafting instructor and both Curriculum Specialist in Secondary Edu- gation.	Drafting Instructor		mentation have o	included or will	rticulation meet for disseminatio	_			•
	Implementation	3. Instructor is working with the DOE Curriculum Specialist for Secondary Education on a proposal for an in-service workshop to upgrade competencies of secondary school drafting instructors from Lanai, Molokai, and Maui.	4. Participation in statewide drafting workshop which produced a recommended drafting program.		Since December, 1974, the following accomplishments in implementation have	colleges with drafting programs have i	Honolulu Community College has initiated vertical articulation meetings on drafting with Honolulu high containing information on the HCC drafting program for dissemination to neighbor island high schools.				
Extent of	1mb Lementarion		5.11		mber, 1974, the	All community co	lonolulu Communi				
E IN TECHNOLOGY	COLLEGE	Mauf		ADDENDUM:	Since Deck		. 2	61			46

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Other Tmolfoetions	Action is needed by the Provost and Food Services Department Chairman to consider the implementation of the food service recommendations.	System needs to be implemented at Hawaii Community College and Leeward Community College and Leeward articulation. Implementation is in abeyance until a study by an ad hoc committee of the Statewide Curriculum Council is completed.	High school instructors, counselors, and community college registrar need to be informed of available credit options. Students need to be informed and encouraged by the above mentioned people to exercise the credit options.	Formal designation of a center is necessary. This may be accomplished by 1) ejection by representatives of food service programs on the community college level, or 2) designation by a statewide articulation committee.
Cost	2	None	None	Exchange of materials to be on loan basis or for minimal duplicating costs.
. Expected Outcomes	Expected outcome is action initiated by the Provost and Food Services Coordinator to improve vertical articulation.	If the system is adopted by all community colleges. I. student, parent, faculty, and administrative confusion caused by inconsistency in course numbers, titles, and descriptions will be eliminated. 2. inter-college transfer will be facilitated. 3. manhours spent on placement and course credit transfer problems will be decreased.	Food Service Duplication of introductory course-Education Div-work will be eliminated. Presently islon Chairmarovercrowded KCC introductory courses with approval would be reduced in size if students from Curricu-received credit for high school food lum Committee, service courses. More sections bean of In-could then be offered in specialized struction, ander advanced areas. Students would the Provost and be able to progress through the program faster.	1. Reduce or eliminate duplication of effort and free man-hours for improving instructional quality in other ways. 2. Increase amount of instructional resources available to each source. 3. Keep food service instructors and those concerned with the food service program informed of the most recently available resources. 4. Help some campuses overcome geographical constraints which may limit knowledge of and accessibility to instructional resources.
Responsible Agent	ervices inator istruc-	Food Service Education Division Chairman with approval from Curriculum Committee, Dean of In- struction, and the Provost	Food Service Education Division Chairman With approval From Curriculum Committee, lum Committee, struction, and the Provost	Food Service Education Division Chairman
Description of Implementation	Concern has been expressed as to the need for vertical articulation with Konawaena High School.	1. System-wide uniform course numbering and description system was implemented.	2. Credit option: Community College credits (Food Service 120B & C, 123B) may be awarded on the basis of C or better work in high school Food Service I. Credit option: Students accepted for enrollment in KCC Food Service Program with C or better in high school Food Service II may apply for credit in FS 140 courses. Credit option: Students completion one year of cooperative education experience at the secondary level with a verification letter from their employers may apply for credit in FS 140.	3. Instructional resource material is being provided to high schools and industry on an informal basis.
Extent of Implementation	Full Partial r	Full Partial X Done None	<u>ب سر پر بن ن سر پ س</u>	_ =- av
Community College	Hawaii	Kapiolani	62	47

Other Implications	Authorized procedures for making systemyde changes in course numbering and titling should be specified by the Statewide Curriculum Council and information disseminated to all community colleges.	
Cost Factors	None	
Expected Outcomes	If uniform course numbering and titling are implemented through authorized systemwide procedures, the expected outcome is improved horizontal articulation.	
Responsible Agent	Inator	-
Description of Implementation	Curriculum Committee approval was obtained for implementing the proposed uniform course numbering system. However, communication from the Office of Academic Affairs on the Manoa Campus indicated that the proposed use of letters was not acceptable. A decision was made, following two other attempts to change the course numbering system, to desist from further attempts at implementation until authorized system/de procedures to change course numbering are resolved.	
Extent of Implementation	None Rull X O	
RIC BR C NORTH THE REPORT OF T	reconstruction — 63	48

APPENDIX C

AUTOMOTIVE MECHANICS, BUSINESS EDUCATION, DRAFTING AND FOOD SERVICE PROGRAMS ON THE SECONDARY LEVEL*

January, 1974

	l .	MOTIVE		l B	INES					FO		
		ANICS		<u> </u>	CATIO	T	 	AFTIN	1	SEI	RVICE	1
	P.I.P	I.V.	0.S.	P.I.P.	I.V.	0.s.	P.I.P.	I.V.	0.S.	P.I.P.	I.V.	p.s.
HONOLULU DISTRICT												
Farrington	х			х	х	Х	х			x		x
Kaimuki		Х			х	Х					х	х
Kalani	X				х							
McKinley		х			х	х					х	х
Roosevelt		х			х							
Kaiser				-	х							
CENTRAL DISTRICT Aiea				x	х	x						х
Leilehua					х	х						х
Moanalua					х							
Radford	<u>_</u>	х			х							
Waialua	Х				х	х						х
LEEWARD DISTRICT Campbell		х			x							х
Nanakuli	х				х	х						х
Waipahu		х			х	х		х			х	х
Waianae	х	X·		х	х					х		х
Pearl City					х							
WINDWARD DISTRICT Castle	,				х	x						х
Kahuku	х				х	х						
Kailua		х			х	х		Х				х



				-			*					
		CHANIC			INES:		DRAI	TING		FOO SER	D VICE	
	P.I.P	I.V.	0.s.	P.I.P.	I.V.	0.s.	P.I.P.		o.s.	P.I.P.		0.5
HAWAII DISTRICT Hilo	х				x							
Honokaa					х							
Kau		_			х							
Kohala	х				х							
Konawaena	х			х	х					х		
Laupahoehoe					х							
Pahoa					х							
MAUI DISTRICT Baldwin		x			Х							
Hana					х							
Lahainaluna	Х				х							
Lanai					х							
Maui					х							
Molokai					х							
KAUAI DISTRICT Kapaa	х				х							
Kauai					х							
Waimea					x							

*This chart shows which of the four vocational education program areas discussed in the FY 73 Articulation Institute are offered in specific secondary schools. It is not a complete listing of all vocational education programs on the secondary level.

The P.I.P. (Pre-Industrial Preparation) Program is an interdisciplinary program which correlates basic mathematical, verbal, and scientific skills with concrete occupational experiences. It serves primarily underachieving disadvantaged students.

The I.V. (Introduction to Vocations) Program is guidance-oriented and serves all students. It includes information on career opportunities and experiences in various clusters of occupations.

The O.S. (Occupational Skills) Program is for limited ability learners and offers specific job skill development.



APPENDIX D

STATUS REPORT: IMPLEMENTATION OF FY 73 ARTICULATION RECOMMENDATIONS ON THE SECONDARY LEVEL



AUTOMOTIVE MECHANICS TECHNOLOGY December, 1974

Other	Improved horizontal articulation of secondary level automotive instructional content may facilitate vertical articulation with the community colleges automotive instructors will be able to count on more consistency in secondary level automotive instructorive instructoristive instructoristical enterprises.	Inservice workshops should continue to be held at times which would accommodate neighbor island instructors.	Draft copies may not have been considered official enough to form a basis for proceeding with the implementation of the recommendations.
Cost	Printing and mailing costs	\$280 per credit hour for instruc- tor's salary.	Mailing costs
Expected Outcomes	After dissemination of the State Guide and orientation meetings, there will be greater consistency in instruction through use of the Guide. The result will be improved horizontal articulation of secondary level automotive instructional content.	Neighbor island instructors will be able to avail themselves of inservice training opportunities during the summer. Teacher competencies will be upgraded, resulting in more comprehensive education for students. Better preparation at the secondary level will allow the student to complete his training at the post-secondary level sooner and at less cost, and to broaden his training by taking more advanced courses.	Improved horizontal and vertical articulation.
Responsible Agent	DOE Vocational. Technical Div- ision Program Specialist for Trades and Industry	DDE, UH, Community Colleges, Office of the State Director for Vocational Education	Dr. Lawrence Zane.
Description of Implementation	1. State Guide is in the process of being edited and printed for dissemination.	2. Survey of areus of interest for in-service training was conducted. Results were submitted to the State Director for Vocational Education and to the Hawaii Automotive Teachers Association in January 1974. The Association was formed as a result of a felt need resulting from the Articulation Institute. A five-year program was planned for University credit courses and yearly in-service training in workshops to ungrade instructor competencies. The workshops to ungrade instructors. An in-depth inservice course for Automotive teachers was offered during February '74. The first summer workshop was held. An in-service course to upgrade subject matter skills and knowledge and to develop new teaching methods and materials will be offered through UH College of Education during Spring '75. A 2-week intensive summer workshop will be held for automotive inmunity college levels in June through General Motors Overseas Distribution Corporation. 3 credits	3. All principals and automotive teachers received copies of the draft form of the articulation agreements.
Extent of Implementation	Full Partial X of None		
DOE District	All Districts	; 67	. 52



Other	Implications				
Cost	None				
Expected	Inclusion of secondary school instructors on community college advisory committee will 1. reduce the number of advisory committees needed, 2. improve the vertical articulation of programs. Inclusion of secondary school instructors in the professional orstructors in the professional orstructors in the professional orstructors in the professional orcurrent on manpower needs and their implications for competency criterial in the secondary school program.	* · · · · · · · · · · · · · · · · · · ·			
Responsible	ı				
Description of Implementation	utomotive to the lipation of the on the on the lulu, Maui as on cians'				
Extent of Implementation				;	
ict	-				

BUSINESS EDUCATION (TYPING AND SHORTHAND) December, 1974

DOE District	Extent of Implementation	Description of Implementation	Responsible Agent	Expected	Cost	Other Tuml feations
Hawai i	Full Partial X None	1. Hilo High has implemented the certification procedures. Students are evaluated according to minimum criteria requirements stipulated by the Articulation Report.	Business in- structors, chairman, prin- cipal	le to complete business at 11ege without tion.	Minimal costs of printing certificates	The Hawaii DOE District Office should consider the feasibility of printing certificates for use on Hawaii. The certification proposal should be implemented at other high schools on hawai so that all Big Island students have the same option.
		2. Deputy District Superintendent has expressed a willingness to open up a communication channel for articulation concerns with Hawaii Community College.	Deputy District Superintendent	Deputy DistrictUpon establishment of channel, Superintendent there will be a mechanism by which vertical articulation efforts can be directed, evaluated, and mon- itored.	None	The District Superintendent should contact the Provost of Hawaii Community College to establish an official communication channel for articulation concerns.
Kauai.	Full X Partial None	1. Certificat=, of Proficiency DOE Curriculum have been printed by the District Specialist for Office, with provisions for princi-Secondary Edupal's and instructor's signatures. Cation, DOE Copies are to be placed in students Deputy District Permanent files. Kauai DOE District Superintendent, DOE District has disseminated information on cer-Superintendent to high school instructors and counselors. KCC Provost to high school instructors and counselors. KCC Provost has informed the Dean of Student Services, registration advisers of the countification condended advisers		Students will be able to complete their coursework in business at Kauai Community College without unnecessary duplication.	Costs of printing cer- tificates	Procedures to evaluate certification and placement should be specified by the KCC Provost and DOE District Superintendent through the chairperson of the KCC business division and the DOE Curriculum Specialist.
59		2. Articulation meetings have involved business instructors from Katai Community College and the high schools.	Provost, bus- iness educa- tion chair- person, DOE Curriculum Specialist	More communication between the high schools and KCC should result in more realistic knowledge of the programs offered and facilitate student transfer to the KCC business program.		An official communication channel or mechanism needs to be established to direct, evaluate and monitor articulation efforts.
Maui	Full Partial X None	A Fall workshop on Articulation was sponsored by EPDA Part F funds through the Office of the State Director for Vocational Education, in response to a join request by Maul Community College and the Maul DOE District Office. Among those present were 3 MCC business instructors and 4 secondary level business instructors. All accepted the certification proposal and recommended	MCC Frovost, Maui DOE District Superin- tendent, MCC and DOE busi- ness instruc-	With the implementation of the certification proposal, students will be able to complete their coursework at MCC more quickly without unnecessary duplication. They may thus take more advanced level or specialized coursework.	Costs of printing cer- tificates and copies of min- imam criteria for certifi- cation	
54		the following for implementation: 1. Maui District Office should print certificates to be used beginning January 1975.				



Other	Implications	Leeward Community College Curriculum Commitice approval will be necessary before students can be granted college credit on the basis of satisfactory performance on the exam. A community college systemwide decision would also be necessary to determine whether other community college would accept this credit option.		will print certificates for statewide	• •
Cost			Costs of printing certificates	will print cex	
Expected		The results of field testing will be forwarded to the coordinator of the placement exam project at Leeward Community College.	Students will be able to progress through typing and shorthand courses at the community colleges without unnecessary duplication and with credit for beginning level courses.	ational-Technical Education Section	
Responsible Agent		Pearl City High School business instructor		ulation, the Vac	
Description of Implementation	2. Copies of minimum criteria requirements for certification should be made available by the Maui District Office to all secondary schools on Maui offering Typing and Shorthand. 3. MCC Business Education Division Chairman should inform registor are and counselors at MCC as well as on the secondary level about the certification procedure, so that they may encourage students to exercise the Sption. Each counselor should receive a copy of the criteria and certificate. 4. MCC Provost should send to the Maui DOE District Superintendent wilten confirmation of the credit and certification procedures. The District Superintendent wilt and certification procedures. The District Superintendins and certification procedures in the District Superintendent will addisseminate the information to the high schools.	of need emerging from ion Institute, an in- the business depart- City High School par- a cooperative effort and Community College sion to develop uni- t exams for typing and he exams will be field selected group of gh students in Spring	These districts should consider the feasibility of implementing the certification proposal as Kapiolani, Leeward and Windward Community Colleges have expressed willingness to accept students for placement on the basis of certification.	ENDUM: As a result of the March 14 Administrators' Meeting on Artiqulation, the Vqcational-Technical Education Section use.	
Extent of Implementation		Full Partial X State State	Full Partial X	lt of the March	
ER	IC.	OAHU Leeward	Central Honolulu Windward	ADDENDUM: As a resul use.	55



DRAFTING TECHNOLOGY December, 1974

DOE	Extent of	Description of	Respons (h)	Denoted		
District	Implementation	Implementation	Agent	Outcomes	Factors	Other Implications
OAHU Honolulu Leeward Windward	Full Partial X None	A University credit course, ED CI 583 Practicum in Curriculum Develop-Hawaii ment: Industrial Education (Drafting) will be offered for community college and high school in- structors during Spring, 1975. Educ Educ Educ Educ Educ Educ Educ Edu	University of Hawaii College of Education College of Continuing Education Office of the State Director for Vocational	Instructional quality is determined by the instructor's competence. The quality of instruction influences the extent of student learning. Upgrading instructor competence will result in improved learning opportunities for students.	Cost of instructor @ \$280/credit hr. x 3 credits = \$840.	Care should be on inservice tr lished D.O.E. c draffing instrueral disseminat all faculty.
Mau 1	Full Partial X None	Although Maui District has no vo- cational drafting program, drafting ondary level instructors participated in the Falldrafting in- 74 Articulation Workshop on Maui, structors A proposal for a Maui County drafting workshop to upgrade sec- ondary school instructor competen- cies is being prepared for submis- sion to the Office of the State Director for Vocational Education.	MCC and sec- ondary level drafting in- structors	Instructional quality is determined by the instructor's competence. The quality of instruction influences the extent of student learning. Upgrading instructor competence will result in improved learning opportunities for students.	Cost of instructor (0.5280/credit hr. x 3 credits = \$840.	
71		There is communication with the MCC drafting instructor on the possibility of students obtaining college credit for high school work in drafting.				
Hawaii		No Vocational Drafting Program				
Kausi		No Vocational Drafting Program				
ADDENDUM:						
Since Dec Hawaii, &	ember, 1974, st and Kauai Cormun	Since December, 1974, steps have been taken to include secondary school drafting instructors on the membership of advisory committees at Leeward, Honolulu, Hawaii, and Kauai Community Colleges and will be taken at Maui Community College.	dary school dra ui Community Co	fting instructors on the membership liege.	of advisory con	mittees at Leeward, Honolulu,
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Other	Implications Hawaii Community College Provost should initiate articulation meetings between Konawaena and HCC Food Service depart- ments so that articulation procedures may be operationalized. HCC Provost should consider the feasibility of implementing the course credit recom- mendations.	Central and Windward Districts may not be able to implement the food service articulation recommendations because they have only the Occupational Skills Program in Food Service, which serves limited ability learners.		·
Cost	Factors Mileage costs			•
Expected	Uncomes Upon operationalizing articulation procedures between Konawaena and HCC, students and faculty will be- come familiar with the HCC food services program, If course credit options are made available by HCC, students will be able to progress through the foods program without monecessary duplication of course-	Information on the availability of course credit options in Food Service at Kapiolani Community College should be disseminated through the Vocational-Technical Education Division and the District Offices to all high school counselors, and principals, so that students may begin exercising the available course credit options at Kapiolani Community College.		
Responsible	ina			
Description of Implementation	vertical h Hawaii ents would illarize services	DOE instructors who did not participate in the Articulation Institute are unfamiliar with the specific recommendations. They are unavare that credit options are available at Kapiolani Community College Food Service program. DOE instructors who did participate in the Articulation Institute have not had students who they felt they could recommend to exercise the credit options offered by Kapiolani Community College.	As a result, no students have yet benefited in terms of streamlining their community college foods program by exercising the available course credit options.	
Extent of Implementation		Full Partial None X 0		
DOE District	Havaii	OAHU Central Honolulu Leeward Windward	72	57

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